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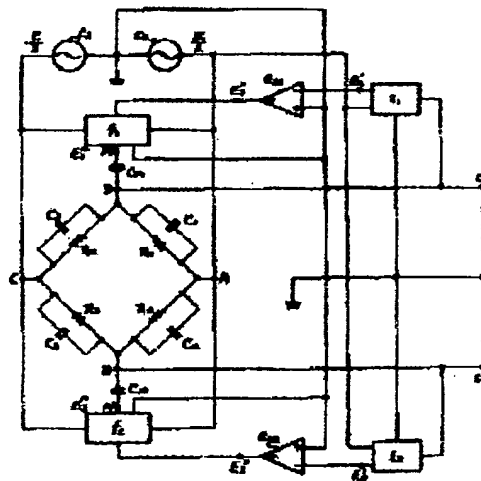
MEASURING DEVICE OF BRIDGE

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 - international: G01R17/10; G01R27/02
 - european: G01R17/10
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Abstract of JP56090264

PURPOSE: To unnecessitate initial adjustment of balance by detecting the imaginary-number component signal of each voltage generated between each measuring end of the bridge and reference potential and by making the signal fed back negatively to the measuring end to eliminate the influence of unbalanced capacity. **CONSTITUTION:** The resistance bridge is formed by resistances R1-R4 and capacities C1-C4 exist in parallel to these resistance. In a net of four terminals composed of points A, B, C and M, the imaginary-number component of the voltage E1 at the point B is detected by an imaginary-number part detector I1, the output voltage E1' thereof is amplified by an error amplifier a21, further by the output voltage E1'' of the amplifier is controlled the output voltage E1''' of an amplitude controller f1 and the voltage E1''' is fed back to one end B of the bridge through the intermediary of a capacity CM. By providing a negative feedback loop in such a constitution, the existence of the capacity is eliminated even when the unbalanced capacity exists at each side of the bridge in parallel with the resistance, whereby the initial adjustment of balance can be unnecessitated.



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